

ABSTRACT OF THE DISCLOSURE

~~The object of the present invention is to provide~~ ^{Provided is} a semiconductor

memory device wherein analog data signal potential read out from a memory cell to bit-line (bit-line read-out potential) can be measured precisely. ~~In this~~

5 ~~invention,~~ ^A sense part circuit block 140 differentially amplifies data signal occurring on one of a pair of bit-lines (for example, bit-line BLNk, BLTk) in a memory cell array 110, and reference signal occurring on another of the pair, and data is read out. Bit-lines BLN1, BLT1, -, BLNn, BLTn are connected to a reference potential setup circuit block 150. Reference potential setup
10 circuit 150 sets up potential assigned from outside of the device as potential of reference signal on bit-line. Bit-line read-out potential is indirectly obtained from the differential amplification result by controlling the reference potential with the reference potential setup circuit block 150.